

Jamie

Reportable Diseases in Kansas

1993 Summary



Kansas Department of Health & Environment • Bureau of Disease Control

**REPORTABLE DISEASES
IN
KANSAS**

1993 SUMMARY

Larissa Wilberschied, M.S.
August, 1994

Kansas Department of Health and Environment
Division of Health
Bureau of Disease Control
Epidemiology Section
Mills Building, Suite 605
109 S.W. 9th Street
Topeka, Kansas 66612-1271
Telephone (913) 296-5585
Fax (913) 296-6510

Table of Contents

	Page
Introduction	1
Section I - Disease Summaries	3
Acquired Immunodeficiency Syndrome (AIDS)	5
Campylobacteriosis	6
Chlamydia	7
E. coli O157:H7	8
Giardiasis	9
Gonorrhea	10
Haemophilus influenzae Meningitis	11
Hantavirus Pulmonary Syndrome	12
Hepatitis A	13
Hepatitis B	14
Lead Poisoning, Pediatric	15
Legionellosis	16
Lyme Disease	17
Malaria	18
Measles	19
Meningococcal Disease	20
Mumps	21
Pertussis (Whooping Cough)	22
Rabies, Animal	23
Rocky Mountain Spotted Fever	24
Salmonellosis	25
Shigellosis	26
Syphilis, Primary and Secondary	27
Tetanus	28
Toxic Shock Syndrome	29
Tuberculosis	30
Tularemia	31
Yersiniosis	32
Section II - Tables	33
Reportable diseases in Kansas, 1993	35
Reportable diseases by year in Kansas, 1983-1993	37
Reportable diseases by county in Kansas, 1993	39
County abbreviations	46
Map of Kansas	47
Publications on disease control in Kansas, 1993	48

INTRODUCTION

Purpose and format of this report

This is the second annual summary of reportable diseases by the Bureau of Disease Control. The purpose of the report is to provide useful information on notifiable diseases in Kansas to health care providers, public health workers and policy makers.

The report is divided into two sections. Section I presents summaries of 28 diseases of public health importance. Data are presented mainly by graphs and statistics. Whenever possible, rates have been calculated to adjust for population size and allow for more meaningful interpretation of the data.

Seven additional diseases have been added to this year's report: E. coli O157:H7, hantavirus pulmonary syndrome, pediatric lead poisoning, tetanus, toxic shock syndrome, tularemia and yersiniosis. Disease incidence for urban and rural areas has also been included for most diseases. Urban areas were defined as counties with populations $\geq 100,000$. Urban areas therefore represent the three largest metropolitan areas in the state [Kansas City (Johnson and Wyandotte Counties), Wichita (Sedgwick County) and Topeka (Shawnee County)], which account for 44% of the population. The remaining 101 counties in the state are classified as rural areas for the purposes of this report.

Section II provides the list of reportable diseases during 1993, a summary of reportable diseases by year for 1983-

1993 and a summary of reportable diseases by county for 1993. Also included in this year's report are a list of county abbreviations for use with Table 3, a map of Kansas with county names and a list of publications on disease control from KDHE in 1993.

Disease reporting in Kansas

Selected infectious diseases are reportable by law in Kansas by health care providers, laboratories and hospitals (Section II, Table 1). Reports are usually first sent to the local health department. The local health department is responsible for providing basic public health interventions such as providing immune globulin to a household contact of a person with hepatitis A or treating sexual contacts of a person with gonorrhea.

Reports are then sent to the Bureau of Disease Control in the Kansas Department of Health and Environment for review. After reports have been entered into the National Electronic Telecommunications System for Surveillance (NETSS), weekly summaries are forwarded to the Centers for Disease Control and Prevention (CDC) for inclusion in the Morbidity and Mortality Weekly Report. The final step in the surveillance system occurs when CDC sends selected data to the World Health Organization.

Local, state, national and international health agencies that collect surveillance data are responsible for analyzing and interpreting the data. The information is used for planning, implementing and evaluating public health programs.

Surveillance data can be used to determine the need for public health action and to assess the effectiveness of programs.

Important disease trends in 1993

The number of vaccine preventable diseases remained low with no cases of polio or diphtheria reported. The incidence of *Haemophilus influenzae* meningitis continued to decline. Measles, mumps and rubella remained at low levels. The first two cases of tetanus in Kansas since 1987 were reported. Pertussis continued to be a problem.

Case counts for three sexually transmitted diseases (gonorrhea, chlamydia and syphilis) declined during 1993. AIDS continued to increase with now more than 1,000 cases reported in Kansas since the start of the epidemic. The large increase in cases in 1993 is due, at least in part, to the introduction of a revised AIDS case definition on January 1, 1993.

Tuberculosis cases increased dramatically in 1993 especially in Sedgwick and Finney counties. While the incidence of TB in Kansas remained well below the national average, health departments often struggled to provide the services required by the increased number of patients.

The first confirmed case of hantavirus pulmonary syndrome in Kansas occurred in October in a 34 year old pregnant woman from Morton County. Three additional cases were confirmed in early 1994.

The Kansas Health and Environment Laboratory has developed the capacity to determine blood lead levels from capillary blood samples in young children. Results from the first full year of testing indicate that 15% of children tested in the public sector had elevated blood lead levels ($\geq 10 \mu\text{g}/\text{dL}$).

Enteric infections including salmonellosis, shigellosis and giardiasis continued to be reported in large numbers. Although not yet a notifiable disease by law, several reports of *E. coli* O157:H7 were received. Numerous outbreaks of foodborne illness were reported during the year. In most outbreaks, a causative agent was not identified.

Interpreting the data

When interpreting the data in this report it is important to remember that disease reporting is incomplete and often varies by disease. For example, reporting of AIDS cases is very good whereas the reporting of chickenpox is poor. Absolute numbers are less meaningful than trends when interpreting the data. It is also important to note that since 59% (62/105) of counties in Kansas have populations less than 10,000, it is possible to have high rates of disease even if only one case is reported.

Acknowledgments

We would like to thank all physicians, nurses, laboratorians and health department staff who participated in reportable disease surveillance during 1993.

SECTION I

DISEASE SUMMARIES

AIDS

Number of cases - 358

% change from 1992 - plus 90%

Kansas rate - 14.2 per 100,000

U.S. rate (1992) - 17.8 per 100,000

Age of case-patients

Median - 34 years

Range - 4 to 85 years

Rate by sex

Female - 2.9 per 100,000

Male - 25.8 per 100,000

Rate by race

White - 12.4 per 100,000

Black - 35.6 per 100,000

Asian - 6.3 per 100,000

Am. Indian - 13.7 per 100,000

Rate by ethnicity

Hispanic - 25.6 per 100,000

Non Hispanic - 13.9 per 100,000

Rate by geographic area

Urban - 23.1 per 100,000

Rural - 7.2 per 100,000

Cases by transmission categories

Men who have sex

with men (MSM) 232 (65%)

Injecting drug

use (IDU) 28 (8%)

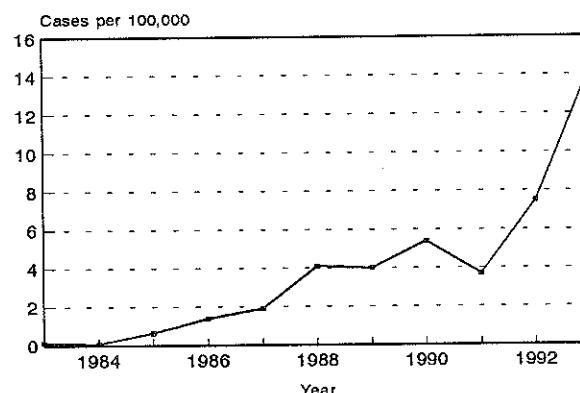
MSM/IDU 22 (6%)

Blood products 15 (4%)

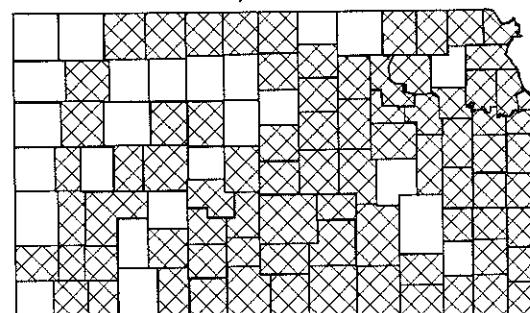
Heterosexual 29 (8%)

Other 32 (9%)

AIDS rate by year
Kansas, 1983-1993

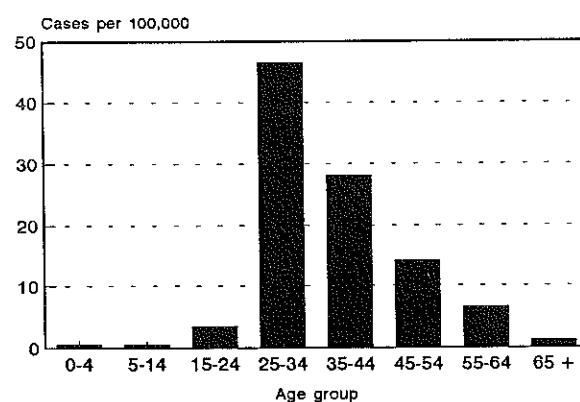


Counties affected by HIV/AIDS
Kansas, 1981-1993



Shaded counties have reported or
treated at least one person with HIV or AIDS.

AIDS rate by age group
Kansas, 1993



Campylobacteriosis

Number of cases - 201

% change from 1992 - minus 21%

Kansas rate - 7.9 per 100,000

U.S. rate (1992) - not available

Age of case-patients

Median - 28 years

Range - < 1 to 87 years

Rate by sex

Female - 7.3 per 100,000

Male - 8.4 per 100,000

Rate by race - not available

Rate by geographic area

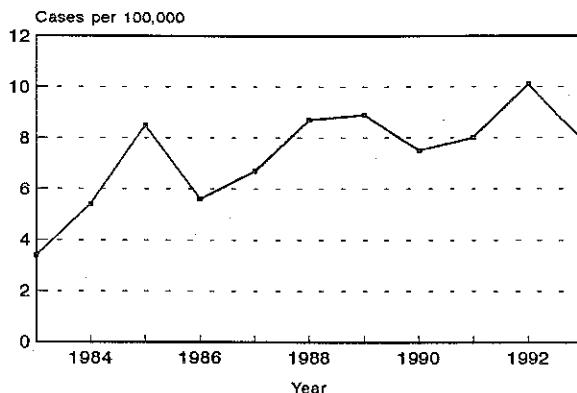
Urban - 12.0 per 100,000

Rural - 4.8 per 100,000

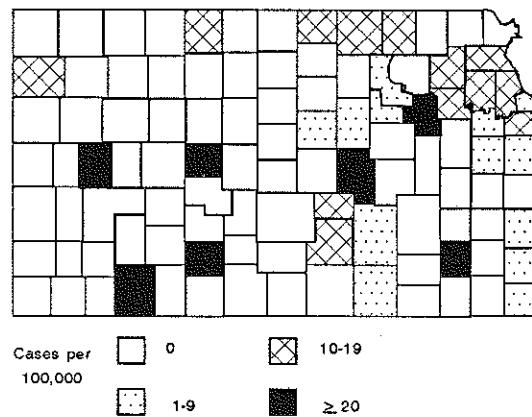
Species identified by state lab

C. jejuni	86 (99%)
C. coli	1 (1%)

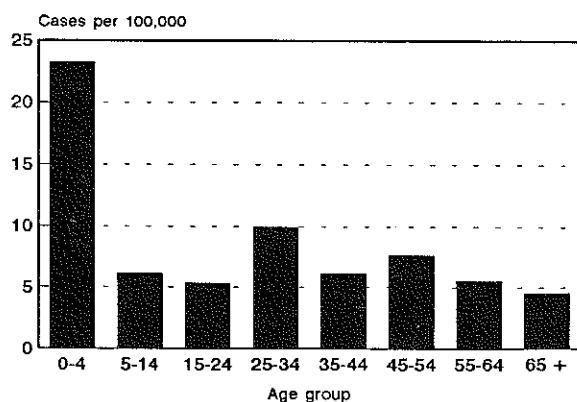
Campylobacteriosis rate by year
Kansas, 1983-1993



Campylobacteriosis rate by county
Kansas, 1993



Campylobacteriosis rate by age group
Kansas, 1993



Chlamydia

Number of cases - 5,694

% change from 1992 - minus 19%

Kansas rate - 225.0 per 100,000

U.S. rate (1992) - 182.6 per 100,000

Age of case-patients

Median - 20 years

Rate by sex

Female - 357.8 per 100,000

Male - 87.4 per 100,000

Rate by race

White - 127.2 per 100,000

Black - 1,195.2 per 100,000

Asian - 163.8 per 100,000

Am. Indian - 314.1 per 100,000

Rate by ethnicity

Hispanic - 386.5 per 100,000

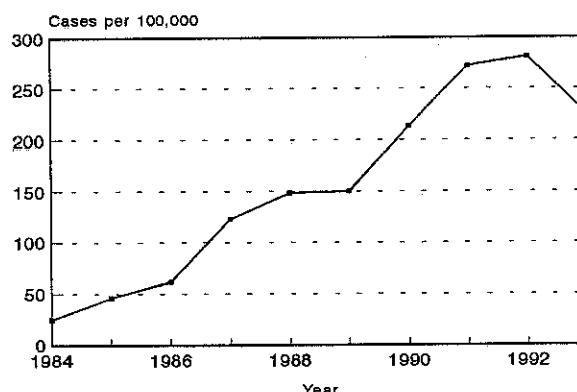
Non Hispanic - 195.9 per 100,000

Rate by geographic area

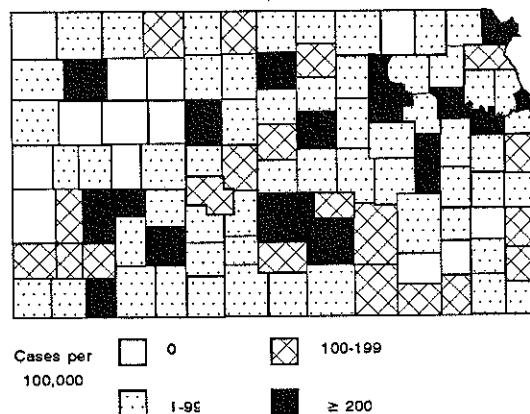
Urban - 278.3 per 100,000

Rural - 185.1 per 100,000

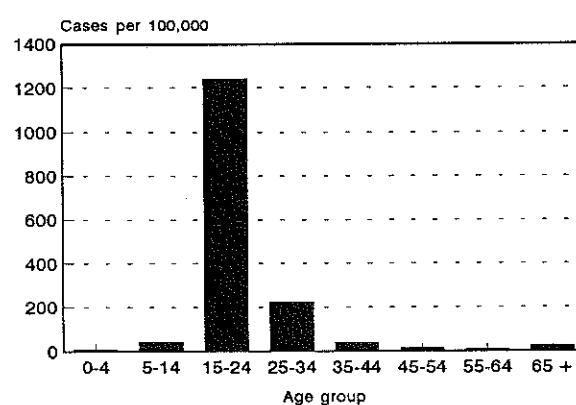
Chlamydia rate by year
Kansas, 1984-1993



Chlamydia rate by county
Kansas, 1993



Chlamydia rate by age group
Kansas, 1993



E. Coli 0157:H7

Number of cases - 11

% change from 1992 - plus 175%

Kansas rate - 0.4 per 100,000

U.S. rate (1992) - not available

Age of case-patients

Median - 40 years

Range - 2 to 78 years

Rate by sex

Female - 0.2 per 100,000

Male - 0.6 per 100,000

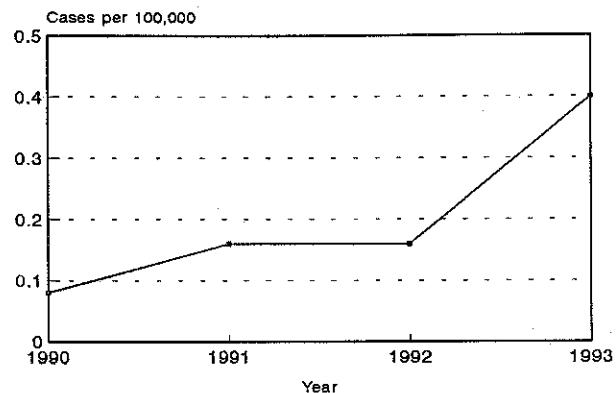
Rate by race - not available

Rate by geographic area

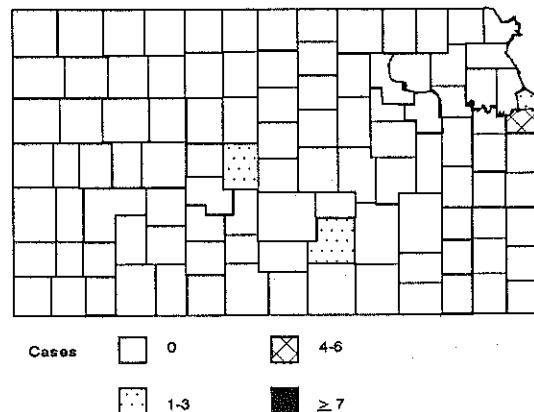
Urban - 0.9 per 100,000

Rural - 0.1 per 100,000

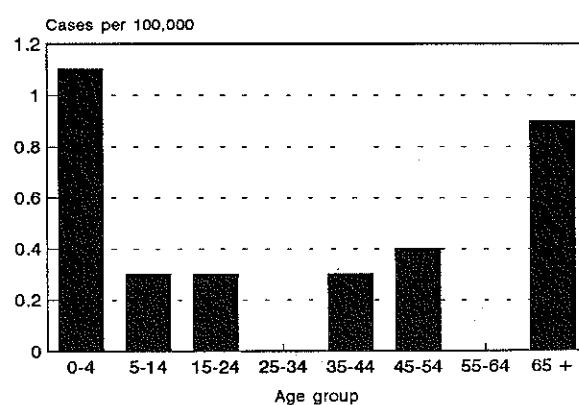
E. Coli O157:H7 rate by year
Kansas, 1983-1993



E. coli O157:H7 cases by county
Kansas, 1993



E. coli O157:H7 rate by age group
Kansas, 1993



Giardiasis

Number of cases - 385

% change from 1992 - minus 26%

Kansas rate - 15.2 per 100,000

U.S. rate (1992) - not available

Age of case-patients

Median - 22 years

Range - < 1 to 102 years

Rate by sex

Female - 14.5 per 100,000

Male - 14.2 per 100,000

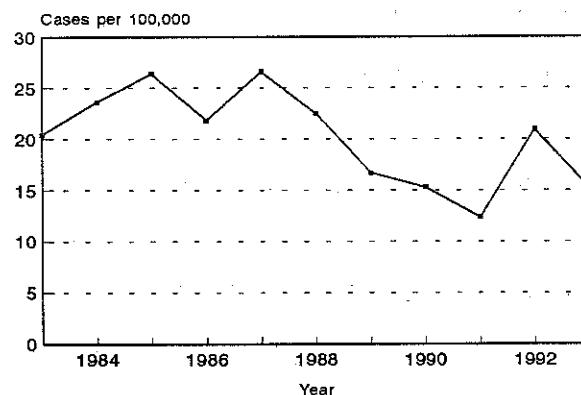
Rate by race - not available

Rate by geographic area

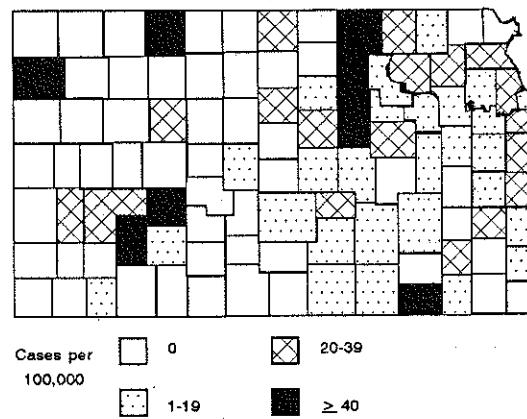
Urban - 16.7 per 100,000

Rural - 14.2 per 100,000

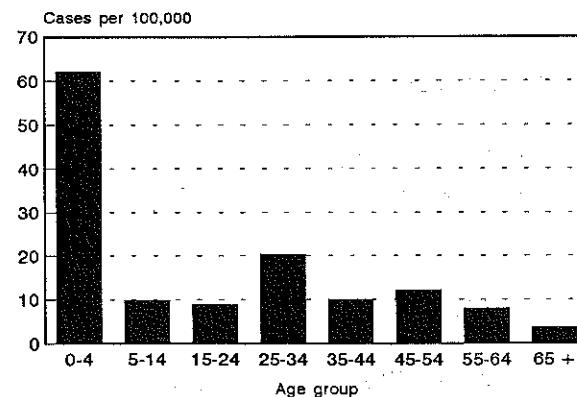
Giardiasis rate by year
Kansas, 1983-1993



Giardiasis rate by county
Kansas, 1993



Giardiasis rate by age group
Kansas, 1993



Gonorrhea

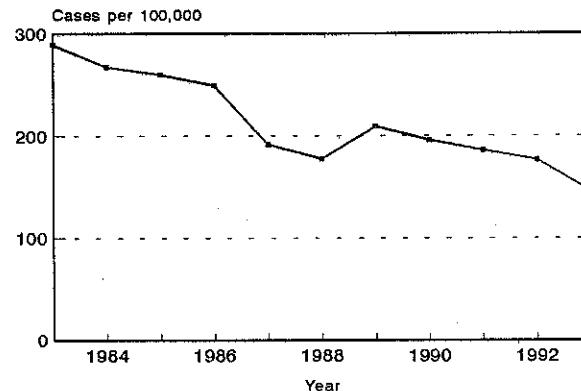
Number of cases - 3,710

% change from 1992 - minus 16%

Kansas rate - 146.6 per 100,000

U.S. rate (1992) - 201.6 per 100,000

Gonorrhea rate by year
Kansas, 1983-1993



Age of case-patients

Median - 22 years

Rate by sex

Female - 146.0 per 100,000

Male - 147.2 per 100,000

Rate by race

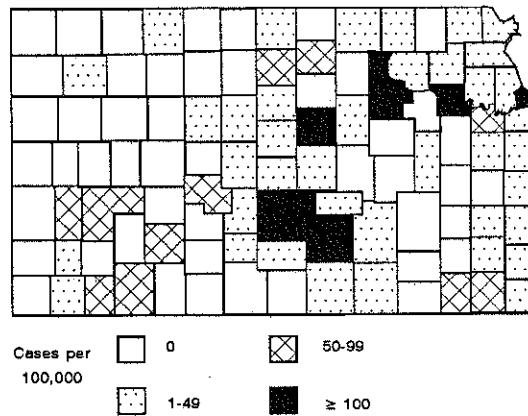
White - 38.8 per 100,000

Black - 1,539.7 per 100,000

Asian - 59.8 per 100,000

Am. Indian - 113.8 per 100,000

Gonorrhea rate by county
Kansas, 1993



Rate by ethnicity

Hispanic - 147.3 per 100,000

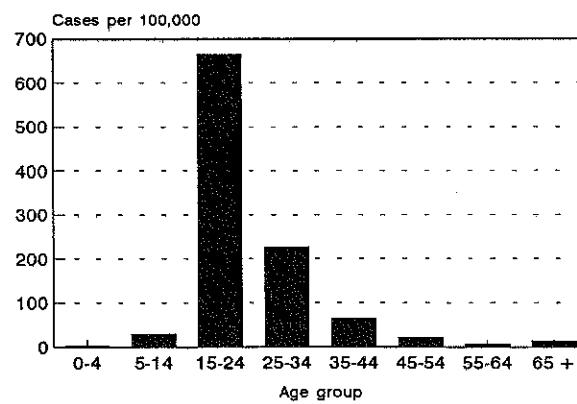
Non Hispanic - 130.6 per 100,000

Rate by geographic area

Urban - 258.8 per 100,000

Rural - 59.0 per 100,000

Gonorrhea rate by age group
Kansas, 1993



Hantavirus Pulmonary Syndrome

Number of cases - 1

% change since 1992 - not available

Kansas rate - < 0.1 per 100,000

U.S. rate (1992) - not available

Age of case-patient - 34 years

Rate by sex

Female - 0.1 per 100,000

Male - 0 per 100,000

Rate by race

White - 0.1 per 100,000

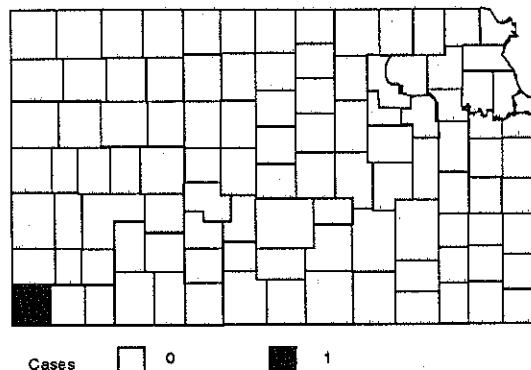
Black - 0 per 100,000

Rate by geographic area

Urban - 0 per 100,000

Rural - 0.1 per 100,000

Hantavirus cases by county
Kansas, 1993



Haemophilus influenzae Meningitis

Number of cases - 4

% change from 1992 - minus 67%

Kansas rate - 0.2 per 100,000

U.S. rate (1992) - 0.6 per 100,000

Age of case-patients

Median - < 1 years

Range - < 1 to 76 years

Rate by sex

Female - 0.3 per 100,000

Male - 0 per 100,000

Rate by race

White - 0.2 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Rate by geographic area

Urban - 0.2 per 100,000

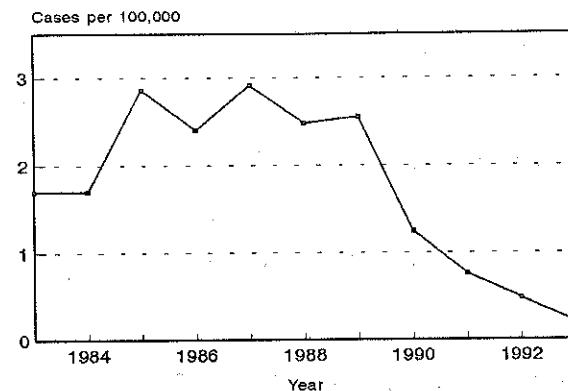
Rural - 0.1 per 100,000

Vaccination status of pediatric cases

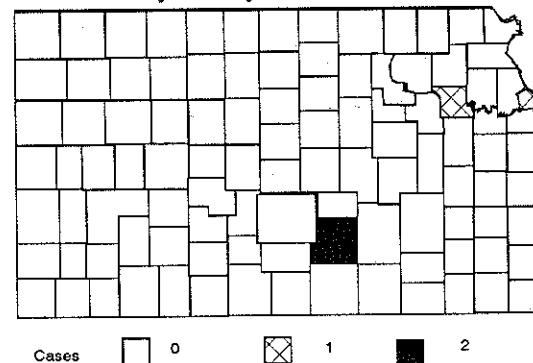
Up-to-date 2 (67%)

Too young for vaccine (< 2 mo.) 1 (33%)

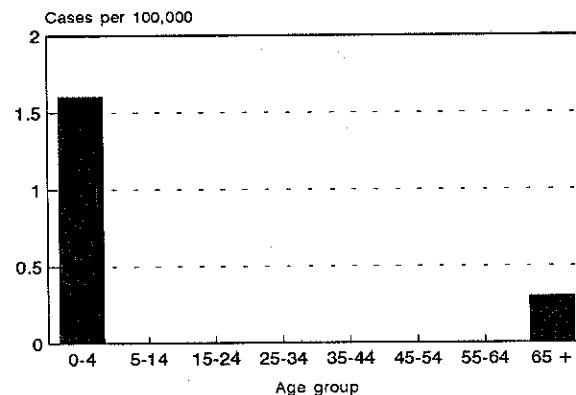
Haemophilus influenzae meningitis rate by year - Kansas, 1983-1993



Haemophilus influenzae meningitis cases by county - Kansas, 1993



Haemophilus influenzae meningitis rate by age group - Kansas, 1993



Hepatitis A

Number of cases - 79

% change from 1992 - minus 44%

Kansas rate - 3.1 per 100,000

U.S. rate (1992) - 9.1 per 100,000

Age of case-patients

Median - 28 years

Range - < 1 to 87 years

Rate by sex

Female - 2.4 per 100,000

Male - 3.9 per 100,000

Rate by race

White - 2.8 per 100,000

Black - 4.2 per 100,000

Asian - 0 per 100,000

Am. Indian - 9.1 per 100,000

Rate by geographic area

Urban - 3.0 per 100,000

Rural - 3.3 per 100,000

Risk factors: (during 2-6 weeks prior to illness)

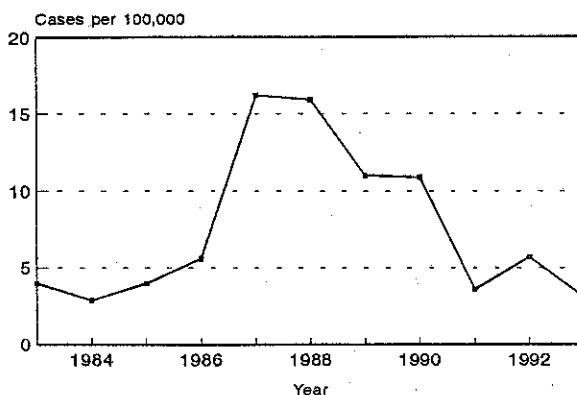
Contact of hepatitis

A case 23 (29%)

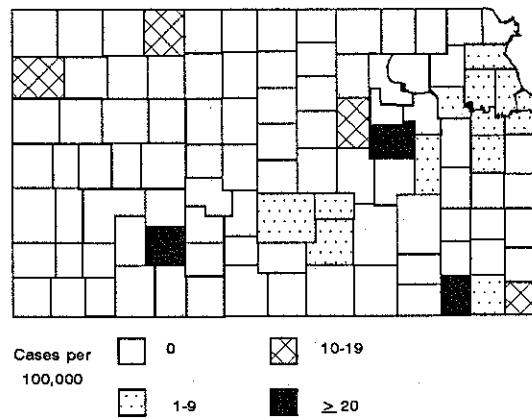
Foreign travel

5 (6%)

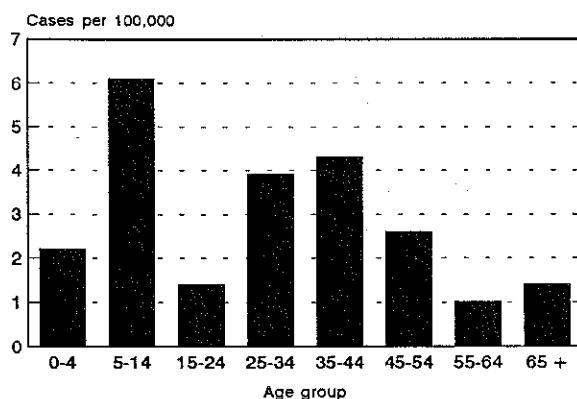
Hepatitis A rate by year
Kansas, 1983-1993



Hepatitis A rate by county
Kansas, 1993



Hepatitis A rate by age group
Kansas, 1993



Hepatitis B

Number of cases - 65

% change from 1992 - minus 2%

Kansas rate - 2.6 per 100,000

U.S. rate (1992) - 6.3 per 100,000

Age of case-patients

Median - 25 years

Range - < 1 to 67 years

Rate by sex

Female - 2.4 per 100,000

Male - 2.7 per 100,000

Rate by race

White - 2.2 per 100,000

Black - 7.0 per 100,000

Asian - 15.8 per 100,000

Am. Indian - 0 per 100,000

Rate by geographic area

Urban - 3.3 per 100,000

Rural - 2.0 per 100,000

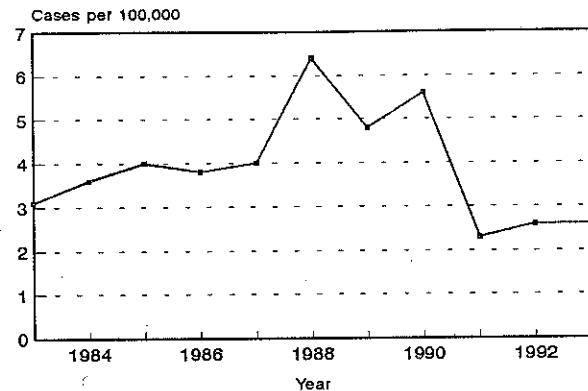
Cases who had received 3 doses of
the hepatitis B vaccine 0 (0%)

Risk factors

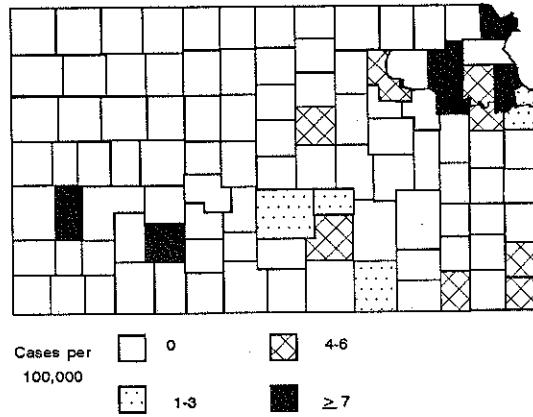
(6 weeks - 6 months prior to illness)

<u>></u> 2 sexual partners	34	(52%)
Contact of Hepatitis B case	9	(14%)
Injecting drug use	2	(3%)

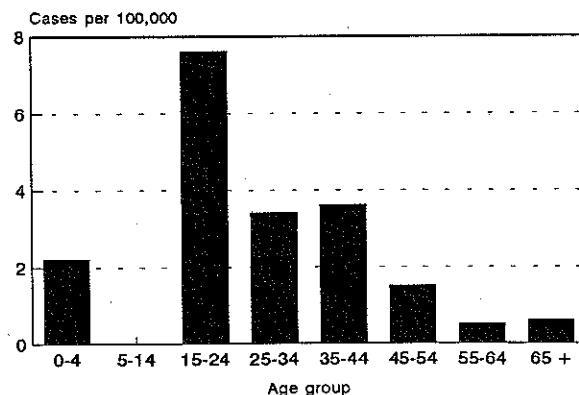
Hepatitis B rate by year
Kansas, 1983-1993



Hepatitis B rate by county
Kansas, 1993



Hepatitis B rate by age group
Kansas, 1993



Pediatric Lead Poisoning

Number of cases - 545

% change from 1992 - not available

Number of counties testing for lead - 86/105 (82%)

Number of counties reporting elevated blood lead levels - 67/105 (64%)

Age of case-patients

Median - 41 months

Range - 6 to 72 months

Percent tested with elevated blood lead levels by sex

Female - 230/1,704 (14%)

Male - 291/1,781 (16%)

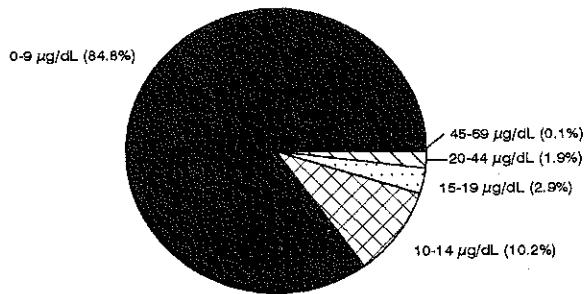
Percent tested with elevated blood lead levels by geographic area

Urban - 51/292 (18%)

Rural - 494/3,302 (15%)

Note: Lead poisoning was defined as a blood lead level $\geq 10 \text{ }\mu\text{g}/\text{dL}$.

Blood lead results for children
6 to 72 months old (n=3594), Kansas, 1993.

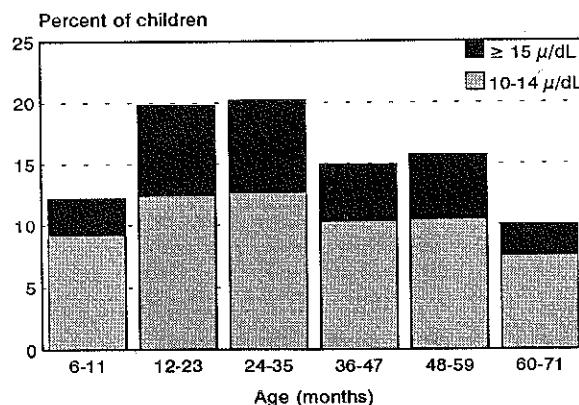


Children with blood lead results $\geq 10 \mu\text{g}/\text{dL}$ over
number tested by county in Kansas, 1993

	1/37	1/17	17/92	1/16	9/35	0/1		0/15	5/8	23/89	9/37	3/30/3
3/57	8/96	0/17	0/33	10/63	3/9	4/28		9/51	3/86	8/19	11/64	
	0/1		1/14	0/10	5/29		2/28	4/30		2/11	1/16	47/18/4-A
0/2	2/52	2/4			8/76		17/99	1/9	2/9	3/25	1/5	6/55
0/1	2/19	1/19		2/20			9/57	9/54	1/3	3/34		2/9
			0/4				4/28	1/17			1/6	5/95 10/8
	0/4		0/30	4/61	6/15			2/14			9/52	15/175
0/2		1/4	0/19	0/4	6/9	0/6	11/17			0/8	11/8	3/7
								1/6	11/48	24/171	3/8	33/92
										0/16		87/28

Numbers exclude non-analyzable samples and duplicates.

Percent of children with blood lead results ≥ 10 and $\geq 15 \mu\text{g}/\text{dL}$
by age group, Kansas, 1993



Legionellosis

Number of cases - 7

% change from 1992 - plus 40%

Kansas rate - 0.3 per 100,000

U.S. rate (1992) - 0.5 per 100,000

Age of case-patients

Median - 46 years

Range - 29 to 83 years

Rate by sex

Female - 0.2 per 100,000

Male - 0.3 per 100,000

Rate by race

White - 0.3 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Rate by geographic area

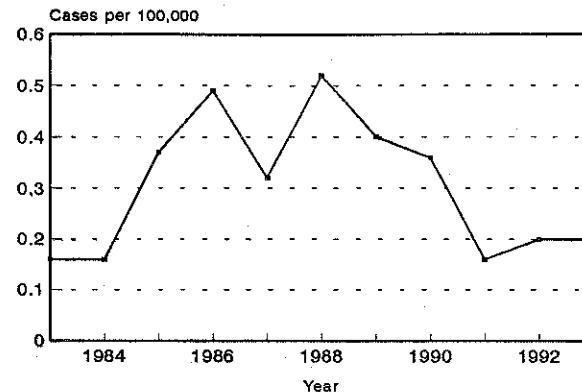
Urban - 0.4 per 100,000

Rural - 0.2 per 100,000

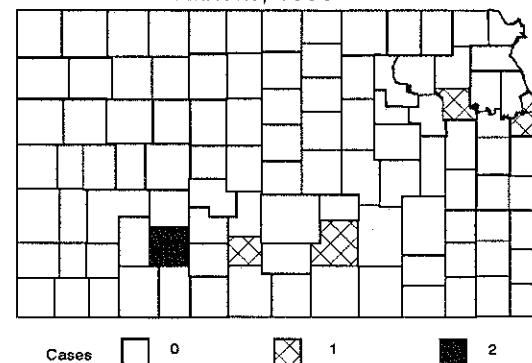
Underlying disease at date of onset

Systemic corticosteroids	2 (29%)
Other immuno-suppressants	2 (29%)
Cancer	1 (14%)
Renal dialysis	1 (14%)
Renal transplant	1 (14%)

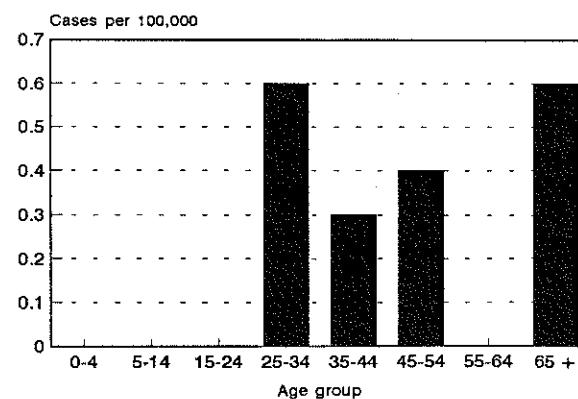
Legionellosis rate by year
Kansas, 1983-1993



Legionellosis cases by county
Kansas, 1993



Legionellosis rate by age group
Kansas, 1993



Lyme Disease

Number of cases - 55

% change from 1992 - plus 206%

Kansas rate - 2.2 per 100,000

U.S. rate (1992) - 3.9 per 100,000

Age of case-patients

Median - 35 years

Range - 1 to 70 years

Rate by sex

Female - 2.6 per 100,000

Male - 1.8 per 100,000

Rate by race - not available

Site of likely exposure

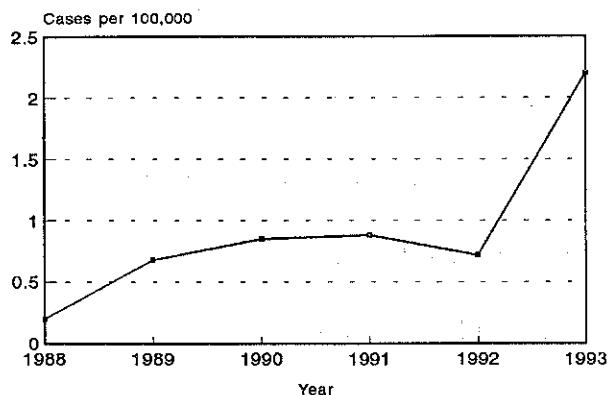
Kansas	33 (62%)
Out of state	20 (38%)

Clinical characteristics

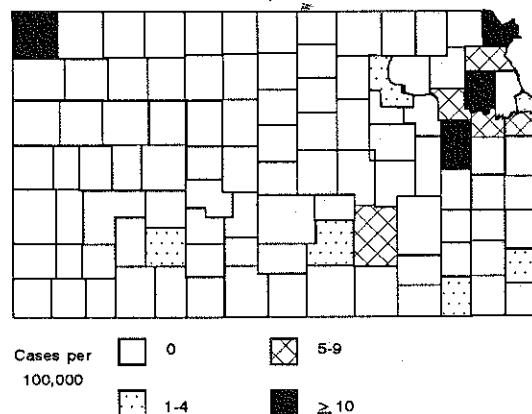
Erythema migrans	26 (47%)
Rheumatic signs	41 (75%)
Neurologic signs	19 (35%)
Cardiac signs	0 (0%)

Comment: The spirochete (*Borrelia burgdorferi*) that causes Lyme disease has not yet been isolated by culture in Kansas.

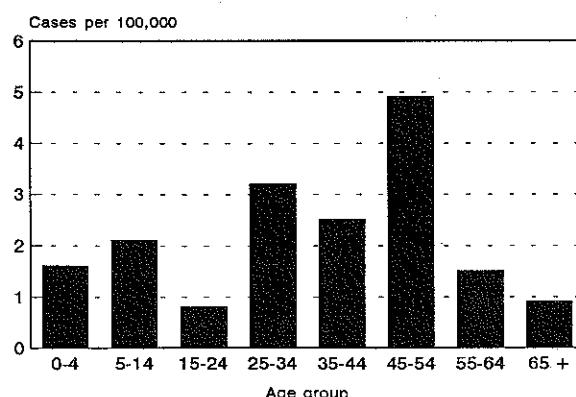
Lyme disease rate by year
Kansas, 1988-1993



Lyme disease rate by county
Kansas, 1993



Lyme disease rate by age group
Kansas, 1993



Malaria

Number of cases - 3

% change from 1991 - minus 50%

Kansas rate - 0.1 per 100,000

U.S. rate (1992) - 0.4 per 100,000

Age of case-patients

Median - 40 years

Range - 22 to 40 years

Rate by sex

Female - 0.1 per 100,000

Male - 0.2 per 100,000

Rate by race

White - 0.1 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

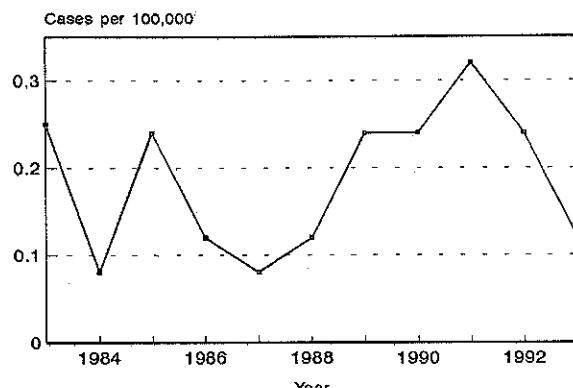
Country of acquisition

India 1

Somalia 1

Guatamala/Mexico 1

Malaria rate by year
Kansas, 1983-1992



U.S. citizen

Yes 2

No 1

Malaria species

P. vivax 3

Prophylaxis

Chloroquine 1

None 1

Unknown 1

Measles

Number of cases - 2

% change from 1992 - plus 100%

Kansas rate - 0.1 per 100,000

U.S. rate (1992) - 0.9 per 100,000

Age of case-patients

Range - 5 to 13 years

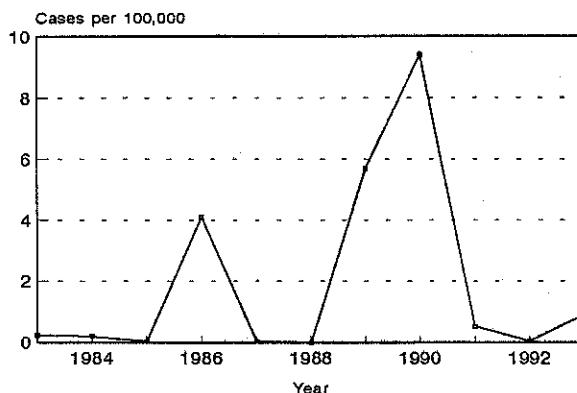
Rate by geographic area

Urban - 0.1 per 100,000

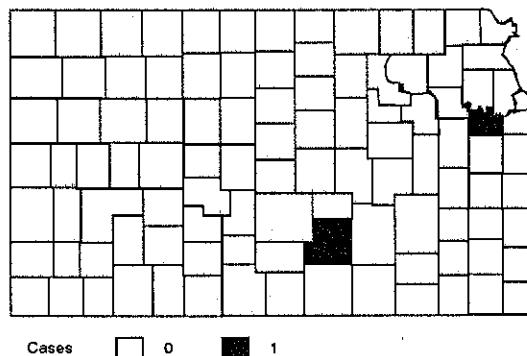
Rural - 0.1 per 100,000

Comment: Children are to be immunized against measles at 12-15 months of age using the triple antigen vaccine (measles-mumps-rubella). State-supplied vaccine is available for a second dose for three different cohorts: school enterers (4-6 years), 11 year olds and persons 18 years old or enrolling in post-secondary school.

Measles rate by year
Kansas, 1983-1992



Measles cases by county
Kansas, 1993



Meningococcal Disease

Number of cases - 36

% change from 1992 - plus 111%

Kansas rate - 1.4 per 100,000

U.S. rate (1992) - 0.8 per 100,000

Age of case-patients

Median - 18 years

Range - < 1 to 86 years

Rate by sex

Female - 1.4 per 100,000

Male - 1.5 per 100,000

Rate by race

White - 1.4 per 100,000

Black - 1.4 per 100,000

Asian - 0 per 100,000

Am. Indian 0 per 100,000

Rate by geographic area

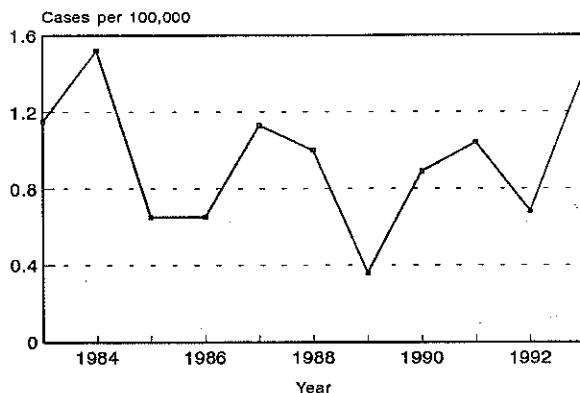
Urban - 1.2 per 100,000

Rural - 1.6 per 100,000

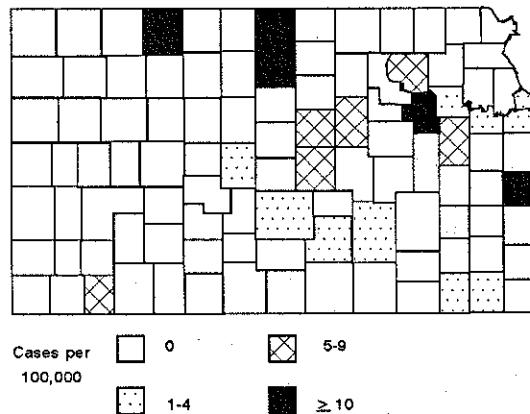
Serogroup

B	11	(31%)
C	1	(3%)
Y	6	(17%)
Unknown	18	(50%)

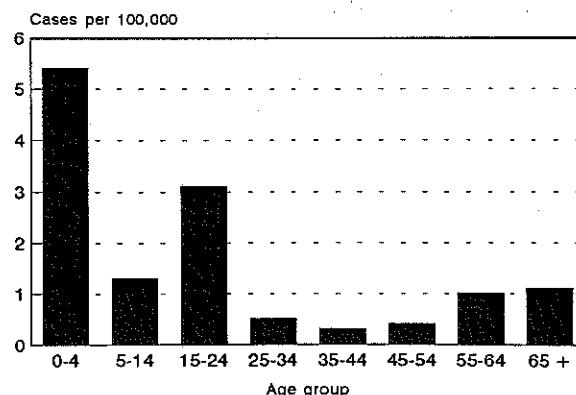
Meningococcal disease rate by year
Kansas, 1983-1992



Meningococcal disease rate by county
Kansas, 1993



Meningococcal disease rate by age group
Kansas, 1993



Mumps

Number of cases - 1

% change from 1992 - minus 67%

Kansas rate - < 0.1 per 100,000

U.S. rate (1992) - 1.0 per 100,000

Age of case-patient - 36 years

Rate by sex

Female - 0.1 per 100,000

Male - 0 per 100,000

Rate by race

White - < 0.1 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

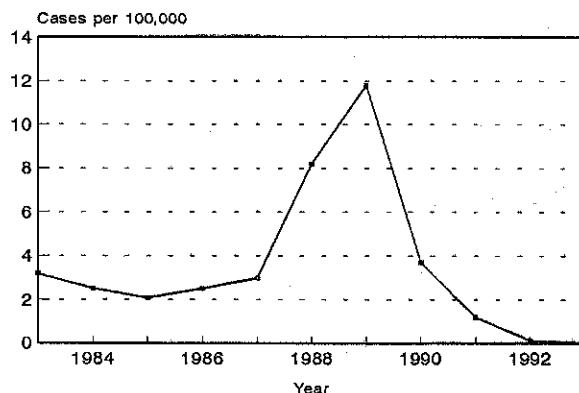
Am. Indian - 0 per 100,000

Rate by geographic area

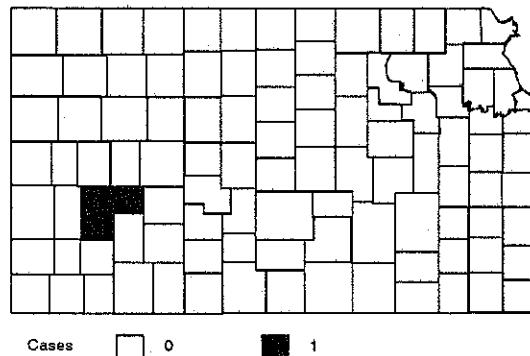
Urban - 0 per 100,000

Rural - < 0.1 per 100,000

Mumps rate by year
Kansas, 1983-1993



Mumps cases by county
Kansas, 1993



Pertussis

Number of cases - 24

% change from 1992 - minus 29%

Kansas rate - 0.9 per 100,000

U.S. rate (1992) - 1.6 per 100,000

Age of case-patients

Median - < 1 year

Range - < 1 to 3 years

Rate by sex

Female - 1.1 per 100,000

Male - 0.8 per 100,000

Rate by race

White - 1.0 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Rate by geographic area

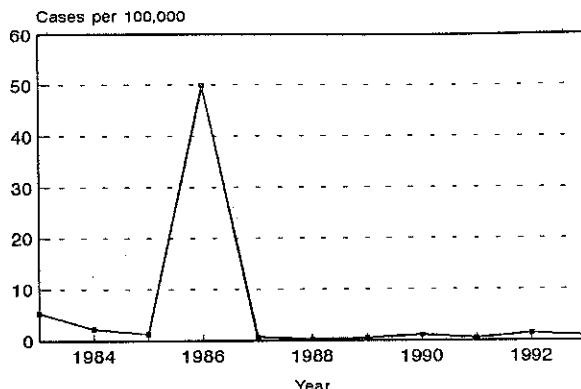
Urban - 1.4 per 100,000

Rural - 0.6 per 100,000

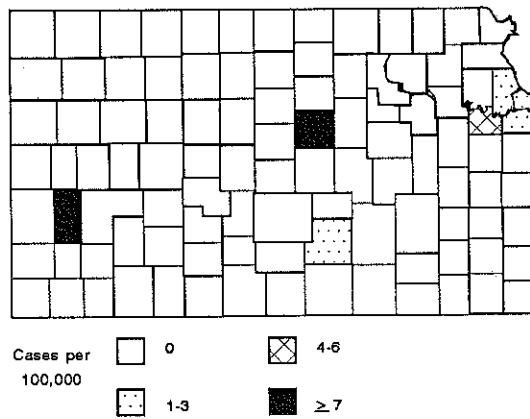
Vaccination status of cases

No history of vaccine	8 (33%)
Previous DPT, but not up-to-date	3 (13%)
Up-to-date	5 (21%)
Too young for vaccine (< 2 mo.)	8 (33%)

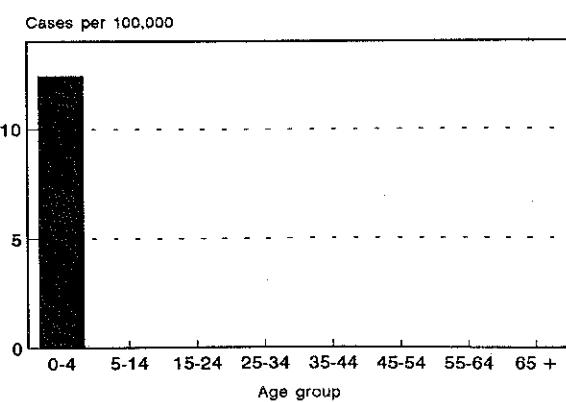
Pertussis rate by year
Kansas, 1983-1993



Pertussis rate by county
Kansas, 1993



Pertussis rate by age group
Kansas, 1993



Rabies, Animal

Number of cases - 79

% change from 1992 - minus 79%

Number of counties reporting rabid animals - 28 (27%)

Types of rabid animals

Wild 63 (80%)

Domestic 16 (20%)

Pets 7

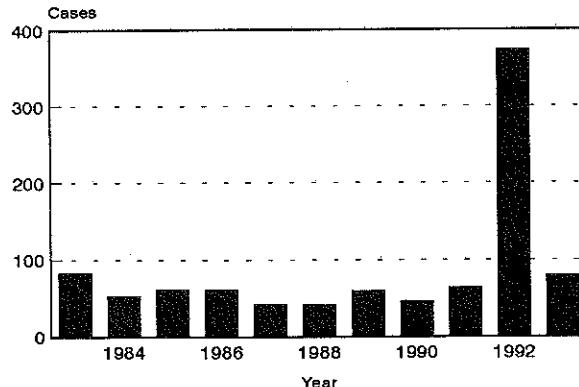
Livestock 9

Rabies was not found in the following species (number of animals tested):

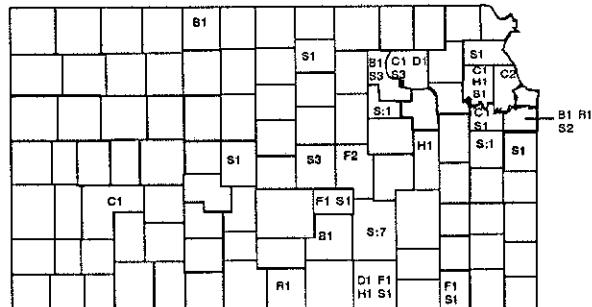
Badger (1), Beaver (2), Bison (1), Bobcat (3), Cougar (1), Coyote (9), Deer (1), Ferret (14), Fox (8), Gerbil (2), Goat (6), Gopher (1), Ground Hog (6), Ground Squirrel (2), Hamster (21), Hedgehog (1), Mink (3), Mole (10), Mouse (34), Opossum (15), Primate (1), Porcupine (1), Rabbit (4), Rat (33), Sheep (3), Squirrel (40)

Comment: The last human case of rabies in Kansas occurred in Montgomery County in 1968.

Animal rabies by year
Kansas, 1983-1993



Animal rabies by species and county
Kansas, 1993



B=bat C=cow D=dog F=feline H=horse R=raccoon
S=skunk

Rabid animals by species
Kansas, 1993

Species	Number Tested	Number Positive	Percent Positive
Bat	48	6	12.5
Cat	701	5	0.7
Cow	65	6	9.2
Dog	623	2	0.3
Horse	24	3	12.5
Raccoon	128	3	2.3
Skunk	157	54	34.4

Rocky Mountain Spotted Fever

Number of cases - 1

% change from 1992 - minus 80%

Kansas rate - < 0.1 per 100,000

U.S. rate (1992) - 0.2 per 100,000

Age of case-patient - 14 years

Rate by sex

Female - 0 per 100,000

Male - < 0.1 per 100,000

Rate by race

White - 0.1 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

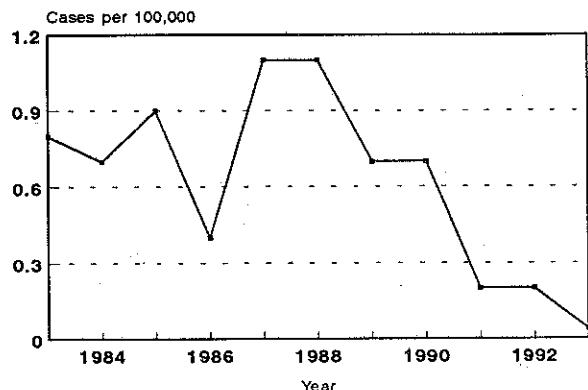
Am. Indian - 0 per 100,000

Rate by geographic area

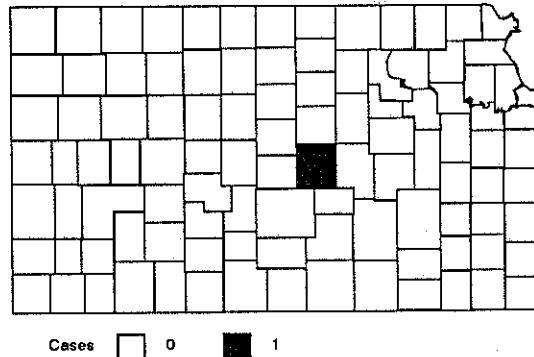
Urban - 0 per 100,000

Rural - < 0.1 per 100,000

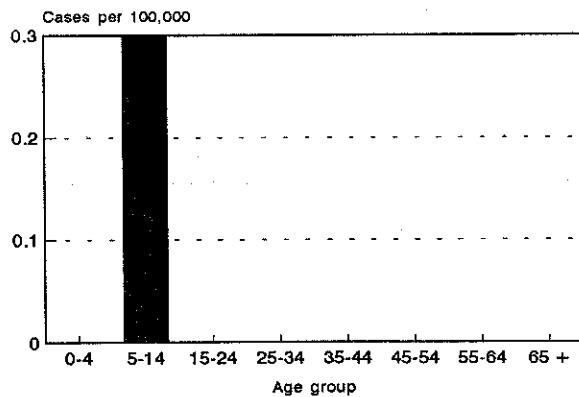
Rocky Mountain Spotted Fever rate
by year - Kansas, 1983-1993



Rocky Mountain Spotted Fever cases by county
Kansas, 1993



Rocky Mountain Spotted Fever rate
by age group - Kansas, 1993



Salmonellosis

Number of cases - 299

% change from 1992 - minus 2%

Kansas rate - 11.8 per 100,000

U.S. rate (1992) - 16.2 per 100,000

Age of case-patients

Median - 17 years

Range - < 1 to 93 years

Rate by sex

Female - 12.4 per 100,000

Male - 10.9 per 100,000

Rate by race - not available

Rate by geographic area

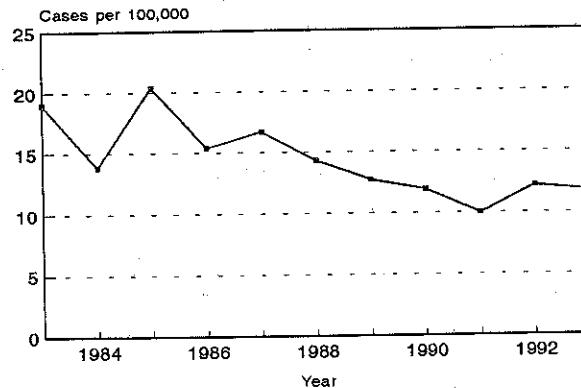
Urban - 12.8 per 100,000

Rural - 11.2 per 100,000

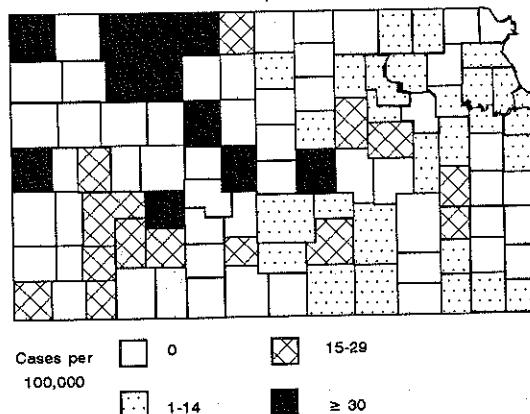
Serotypes identified by state lab

S. typhimurium	69	(32%)
S. newport	30	(14%)
S. enteritidis	31	(14%)
S. hadar	12	(6%)
S. heidelberg	12	(6%)
S. montevideo	7	(3%)
S. agona	5	(2%)
S. brandenburg	4	(2%)
S. muenchen	4	(2%)
S. oranienburg	4	(2%)
Other	41	(19%)

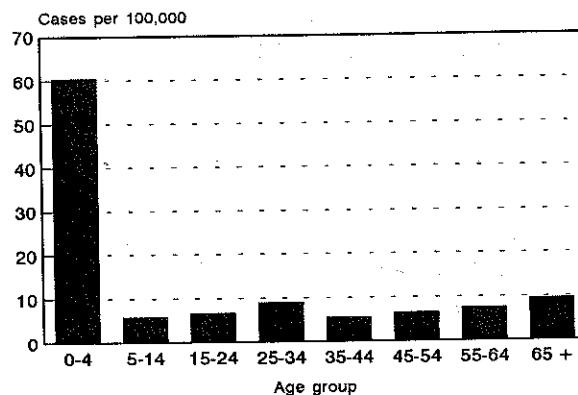
Salmonellosis rate by year
Kansas, 1983-1993



Salmonellosis rate by county
Kansas, 1993



Salmonellosis rate by age group
Kansas, 1993



Shigellosis

Number of cases - 208

% change from 1992 - minus 22%

Kansas rate - 8.2 per 100,000

U.S. rate (1992) - 9.4 per 100,000

Age of case-patients

Median - 9 years

Range - < 1 year to 87 years

Rate by sex

Female - 8.7 per 100,000

Male - 7.4 per 100,000

Rate by race - not available

Rate by geographic area

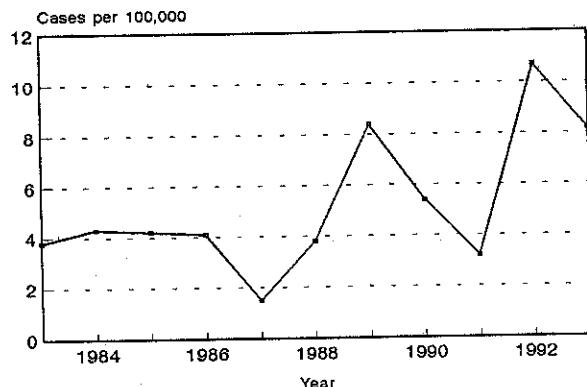
Urban - 11.1 per 100,000

Rural - 6.0 per 100,000

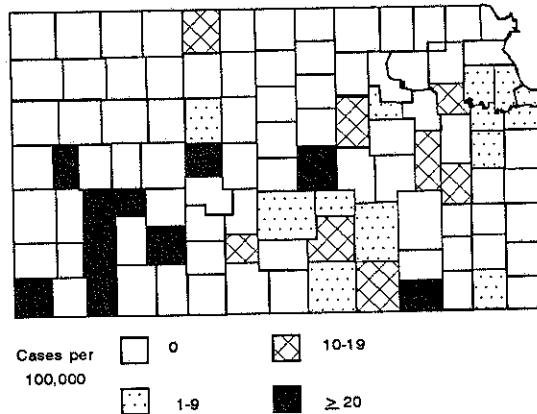
Species isolated by state lab

S. sonnei	152	(96%)
S. flexneri	.5	(3%)
S. boydii	1	(1%)

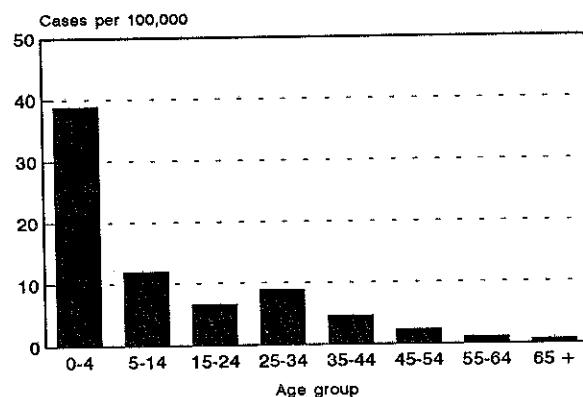
Shigellosis rate by year
Kansas, 1983-1993



Shigellosis rate by county
Kansas, 1993



Shigellosis rate by age group
Kansas, 1993



Syphilis, Primary and Secondary

Number of cases - 129

% change from 1992 - minus 37%

Kansas rate - 5.1 per 100,000

U.S. rate (1992) - 13.7 per 100,000

Age of case-patients

Median - 25 years

Rate by sex

Female - 4.6 per 100,000

Male - 5.6 per 100,000

Rate by race

White - 0.6 per 100,000

Black - 76.9 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Rate by ethnicity

Hispanic - 6.4 per 100,000

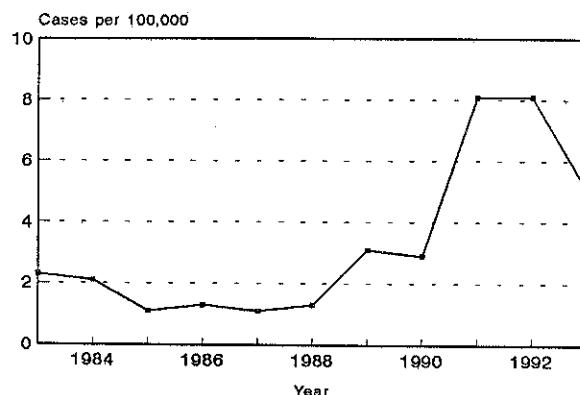
Non Hispanic - 5.2 per 100,000

Rate by geographic area

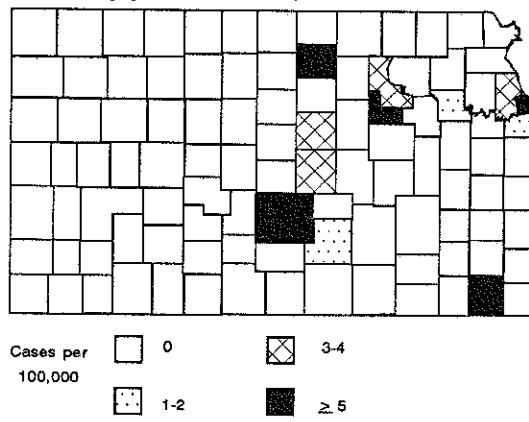
Urban - 9.5 per 100,000

Rural - 1.6 per 100,000

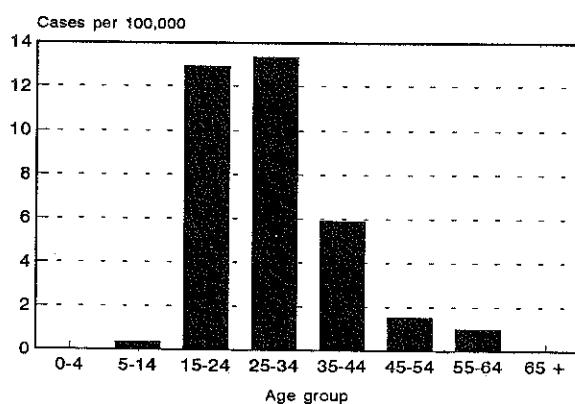
Primary and secondary syphilis rate
by year - Kansas, 1983-1993



Primary and secondary syphilis
by year - Kansas, 1983-1993



Primary and secondary syphilis rate
by age group - Kansas, 1993



Tetanus

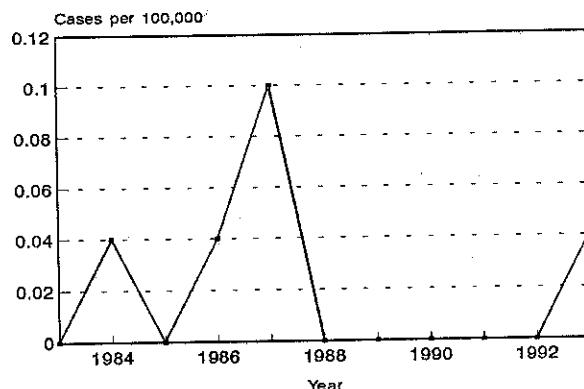
Number of cases - 2

% change from 1992 - not available

Kansas rate - < 0.1 per 100,000

U.S. rate (1992) - 0.1 per 100,000

**Tetanus rate by year
Kansas, 1983-1993**



Age of case-patients

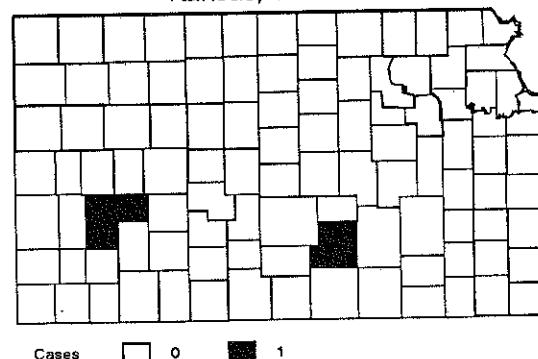
Range - 56 to 82 years

Rate by sex

Female - 0 per 100,000

Male - 0.2 per 100,000

**Tetanus cases by county
Kansas, 1993**



Rate by race

White - < 0.1 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Rate by geographic area

Urban - 0.1 per 100,000

Rural - 0.1 per 100,000

Toxic Shock Syndrome

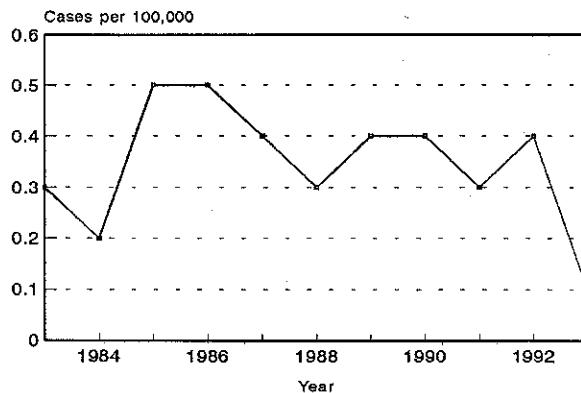
Number of cases - 3

% change from 1992 - minus 67%

Kansas rate - 0.1 per 100,000

U.S. rate (1992) - 0.1 per 100,000

Toxic Shock Syndrome rate by year
Kansas, 1983-1993



Age of case-patients

Median - 31 years

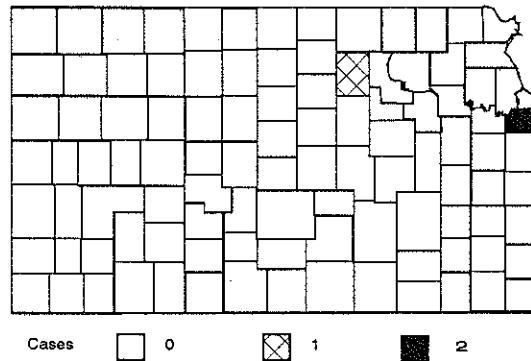
Range - 27 to 35 years

Rate by sex

Female - 0.2 per 100,000

Male - 0 per 100,000

Toxic Shock Syndrome cases by county
Kansas, 1993



Rate by race

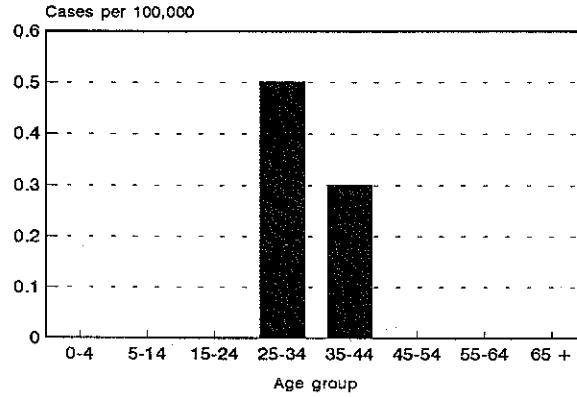
White - 0.1 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Toxic Shock Syndrome rate by age group
Kansas, 1993



Rate by geographic area

Urban - 0.2 per 100,000

Rural - 0.1 per 100,000

Tuberculosis

Number of cases - 83

% change from 1992 - plus 48%

Kansas rate - 3.3 per 100,000

U.S. rate (1992) - 10.5 per 100,000

Age of case-patients

Median - 47 years

Range - 7 months to 98 years

Rate by sex

Female - 2.6 per 100,000

Male - 3.9 per 100,000

Rate by race

White - 1.4 per 100,000

Black - 7.0 per 100,000

Asian - 47.2 per 100,000

Am. Indian - 13.7 per 100,000

Rate by ethnicity

Hispanic - 23.5 per 100,000

Non Hispanic - 2.5 per 100,000

Rate by geographic area

Urban - 3.7 per 100,000

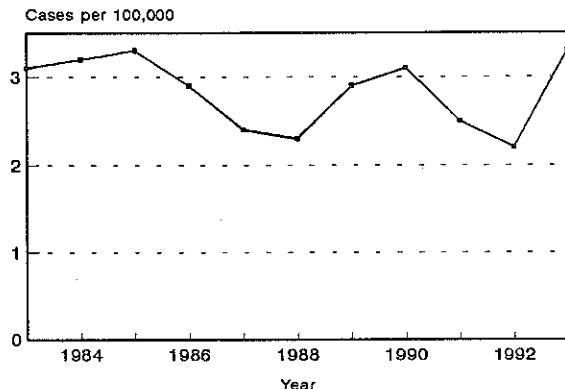
Rural - 3.0 per 100,000

Site of infection

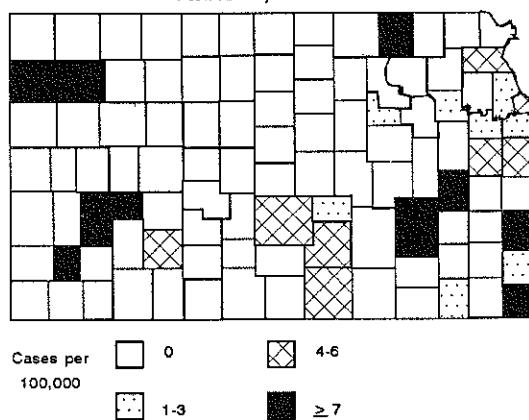
Pulmonary - 74 (89%)

Extra-pulmonary - 9 (11%)

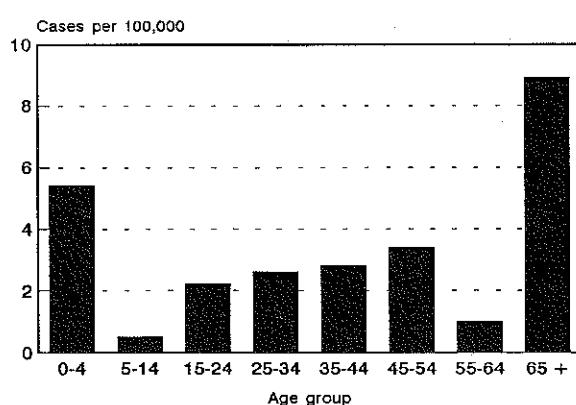
Tuberculosis rate by year Kansas, 1983-1993



Tuberculosis rate by county Kansas, 1993



Tuberculosis rate by age group Kansas, 1993



Tularemia

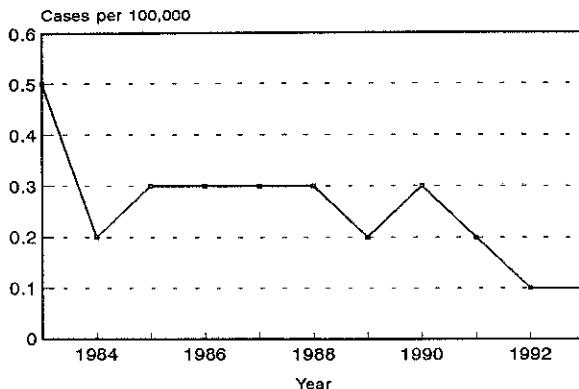
Number of cases - 3

% change from 1992 - 0%

Kansas rate - 0.1 per 100,000

U.S. rate (1992) - <0.1 per 100,000

Tularemia rate by year
Kansas, 1983-1993



Age of case-patients

Median - 7 years

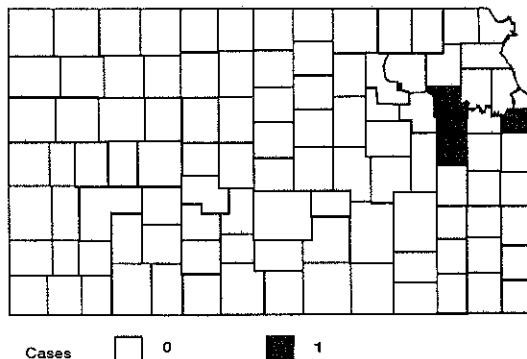
Range - 5 to 55 years

Rate by sex

Female - 0.1 per 100,000

Male - 0.2 per 100,000

Tularemia cases by county
Kansas, 1993



Rate by race

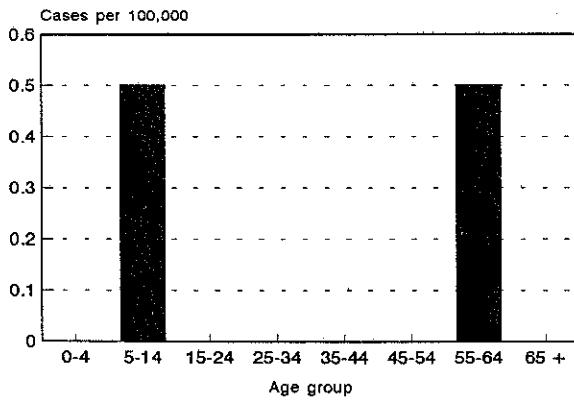
White - 0.1 per 100,000

Black - 0 per 100,000

Asian - 0 per 100,000

Am. Indian - 0 per 100,000

Tularemia rate by age group
Kansas, 1993



Rate by geographic area

Urban - 0.2 per 100,000

Yersiniosis

Number of cases - 1

% change from 1992 - minus 67%

Kansas rate - < 0.1 per 100,000

U.S. rate (1992) - not available

Age of case-patient - 8 years

Rate by sex

Female - 0 per 100,000

Male - 0.1 per 100,000

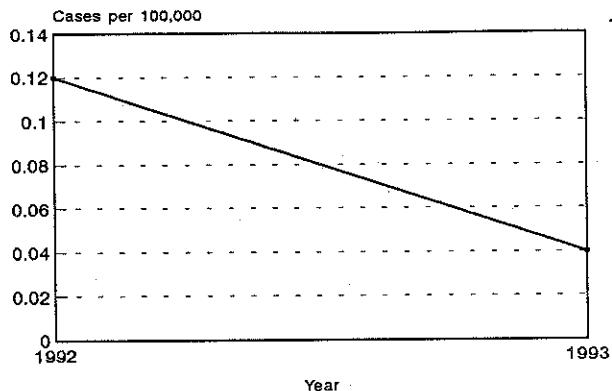
Rate by race - not available

Rate by geographic area

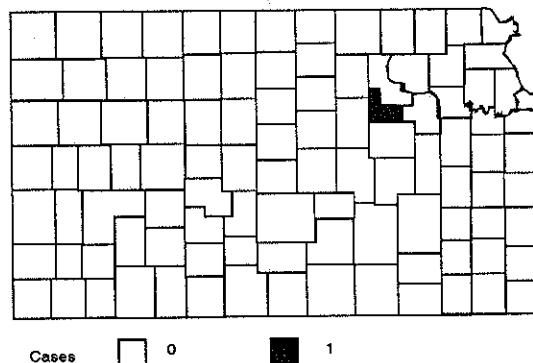
Urban - 0 per 100,000

Rural - 0.1 per 100,000

**Yersiniosis rate by year
Kansas, 1992-1993**



**Yersiniosis cases by county
Kansas, 1993**



SECTION II

TABLES

Table 1. List of reportable diseases in Kansas, 1993

Reportable by physicians, dentists, physician's assistants, social workers, teachers and school administrators (K.A.R. 28-1-2 and 28-1-22)

Acquired Immune Deficiency Syndrome (AIDS)
Amebiasis
Anthrax
Botulism
Brucellosis
Campylobacteriosis
Chancroid
Chickenpox (varicella)
Chlamydia species infections, including psittacosis
Cholera
Diphtheria
Encephalitis, infectious
Giardiasis
Gonorrhea
Granuloma inguinale
Hepatitis, viral
Human Immunodeficiency Virus (HIV) - reportable by physicians only
Legionellosis
Leprosy (Hansen's disease)
Leptospirosis
Lyme disease
Lymphogranuloma venereum
Malaria
Measles (rubeola)
Meningitis
Mumps
Pertussis (whooping cough)
Plague
Poliomyelitis
Rabies
Rheumatic fever
Rocky Mountain Spotted Fever
Rubella, including congenital rubella syndrome
Salmonellosis, including typhoid fever
Shigellosis
Syphilis, including congenital syphilis
Tetanus
Toxic shock syndrome

Trichinosis
Tuberculosis
Tularemia
Typhus, murine
Urethritis, other than gonococcal or chlamydial
Vaginitis, non-specific
Yellow Fever

Reportable by laboratories (K.A.R. 28-1-18 and 28-1-22)

Blood lead level \geq 10 $\mu\text{g}/\text{dL}$ for persons < 18 years of age, and \geq 25 $\mu\text{g}/\text{dL}$ for persons \geq 18 years of age
CD4+ T-lymphocyte count of less than 200/ml or a CD4+ T-lymphocyte percent of total lymphocytes less than 14
Chlamydia
Gonorrhea
Human Immunodeficiency Virus (HIV)
Syphilis
Tuberculosis

Reportable by hospitals (K.A.R. 28-1-4 and 28-1-22)

Acquired Immune Deficiency Syndrome (AIDS)
Cancer
Congenital malformations in infants under one year of age
Fetal alcohol syndrome
Guillain-Barre Syndrome
Reye syndrome
Toxic shock syndrome

Table 2. Cases of reportable diseases by year in Kansas, 1983-1993

DISEASE	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
AIDS	3	2	16	35	48	102	101	134	93	188	358
AMEBIASIS	30	11	29	22	49	36	19	4	1	1	22
ANTHRAX	0	0	0	0	0	0	0	0	0	0	0
BOTULISM	0	1	0	0	0	1	0	0	1	1	0
BRUCELLOSIS	2	2	2	1	0	0	1	1	0	0	0
CAMPYLOBACTERIOSIS	83	133	208	137	167	218	224	185	200	253	201
CHANCREOID	0	0	0	0	4	1	1	13	5	3	1
CHICKENPOX	6856	10295	9069	10367	8310	346	494	3253	3367	4179	1687
CHLAMYDIA	-	600	1124	1522	3042	3701	3772	5218	6791	7024	5694
CHOLERA	0	0	0	0	0	1	0	0	0	0	0
DIPHTHERIA	0	0	0	0	0	0	0	0	0	0	0
E. COLI O157:H7	-	-	-	-	-	-	-	2	4	4	11
ENCEPHALITIS, PRIMARY	4	8	6	2	12	9	6	13	5	5	7
ENCEPHALITIS, SLE	0	0	0	0	2	0	0	0	0	0	0
ENCEPHALITIS, WEE	0	0	0	0	0	1	0	0	0	0	0
GIARDIASIS	494	577	646	537	659	561	419	380	309	521	385
GONORRHEA	7920	7217	7006	6617	4482	4852	5183	4673	4637	4404	3710
GRANULOMA INGUINALE	0	0	0	1	0	0	0	0	0	0	0
HANSEN'S DISEASE	1	0	1	2	0	1	0	0	0	0	0
HANTAVIRUS PULM. SYN.	-	-	-	-	-	-	-	-	-	-	1
HEPATITIS A	96	70	97	137	402	396	276	271	89	141	79
HEPATITIS B	74	87	97	94	99	159	121	139	56	66	65
HEPATITIS NON-A NON-B	10	17	28	18	19	17	18	40	20	16	16
LEAD ≥ 10 µg/dL	-	-	-	-	-	-	-	-	-	-	545
LEGIONELLOSIS	4	1	9	12	8	13	10	9	4	5	7
LEPTOSPIROSIS	0	0	0	0	1	0	0	0	0	0	0
LYME DISEASE	0	0	0	0	0	5	17	21	22	18	55
LYMPHOGRANULOMA VEN.	0	1	1	0	0	0	1	0	0	0	0
MALARIA	6	2	6	3	2	3	6	6	8	6	3
MEASLES	6	5	1	102	1	0	142	233	13	1	2
MENINGITIS, ASEPTIC	107	51	58	64	93	64	110	69	73	114	202
MENINGITIS, HIB	-	-	70	59	72	62	64	31	19	12	4
MENINGOCOCCAL DISEASE	28	37	16	16	28	25	9	22	26	17	36

Table 2. Cases of reportable diseases by year in Kansas, 1983-1993

Table 3. Cases of reportable diseases by county in Kansas, 1993

	AL	AN	AT	BA	BB	BR	BT	BU	CA	CD	CF	CK	CL	CM	CN
AIDS	*	*	*	*	*	*	*	8	*	*	*	*	*	*	*
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
CAMPYLOBACTERIOSIS	0	0	2	0	1	0	0	1	0	0	0	2	2	0	0
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	0	2	24	1	28	7	62	62	1	18	3	5	52	2	0
E. COLI 0157:H7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIARDIASIS	4	1	5	0	2	0	4	6	0	0	0	0	2	0	0
GONORRHEA	2	0	6	0	1	3	5	13	0	10	0	3	9	0	0
HANTAVIRUS PULM. SYND.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS A	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0
HEPATITIS B	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
HEPATITIS NON-A NON-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEAD \geq 10 $\mu\text{g}/\text{dL}$	15	5	11	0	15	9	8	0	0	0	1	87	24	0	0
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYME DISEASE	0	0	1	0	0	0	0	3	0	0	0	0	0	0	1
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGITIS, ASEPTIC	1	1	0	0	5	1	1	1	0	1	0	0	0	0	0
MENINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
MUMPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES, ANIMAL	0	0	1	0	0	0	1	7	0	3	0	0	5	0	0
RHEUMATIC FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALMONELLOPSIS	0	0	2	0	0	0	9	1	0	0	2	1	4	0	3
SHIGELLOPSIS	0	0	0	0	0	0	0	2	0	0	1	0	4	0	0
SYphilis, P AND S	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
SYphilis, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYphilis, ALL STAGES	0	0	1	0	1	0	0	0	0	2	0	0	1	0	0
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	1	0	1	0	0	0	0	0	1	3	0	0	0
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
VAGINITIS	0	0	0	0	3	0	4	4	0	0	0	0	3	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3. Cases of reportable diseases by county in Kansas, 1993

Table 3. Cases of reportable diseases by county in Kansas, 1993

	GE	GH	GL	GO	GT	GW	GY	HG	HM	HP	HS	HV	JA	JF	JO
AIDS	5	*	*	*	*	*	*	*	*	*	*	*	*	*	80
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	1	0	0	0	0	0	0	0	0	0	0	3	2	2	61
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	566	0	0	0	9	3	3	1	0	2	6	51	6	9	338
E. COLI 0157:H7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
GIARDIASIS	2	0	0	0	0	1	3	1	0	0	0	11	3	1	87
GONORRHEA	271	0	0	0	3	0	0	0	0	0	0	9	2	1	118
HANTAVIRUS PULM. SYND.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS A	0	0	0	0	0	0	0	0	0	0	0	1	0	1	8
HEPATITIS B	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3
HEPATITIS NON-A NON-B	0	0	0	0	0	1	0	0	0	0	0	3	0	0	2
LEAD ≥ 10 µg/dL	2	0	0	0	0	0	0	0	0	1	0	1	8	1	2
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LYME DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGITIS, ASEPTIC	1	0	0	0	0	1	0	0	0	0	2	0	0	1	59
MENINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
MUMPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
RABIES, ANIMAL	1	0	0	0	0	0	0	0	0	1	0	2	0	0	0
RHEUMATIC FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
RMSF	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2
SALMONELLOSIS	1	2	1	0	0	0	1	1	0	0	0	4	1	0	12
SHIGELLOSIS	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SYphilis, P AND S	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYphilis, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYphilis, ALL STAGES	18	0	0	0	0	0	1	0	0	0	0	0	0	0	7
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TUBERCULOSIS	1	0	0	0	0	3	1	0	0	0	0	0	1	0	1
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
URETHRITIS	93	0	0	0	0	0	1	0	0	0	0	2	0	2	11
VAGINITIS	41	0	0	0	0	0	0	0	0	1	0	6	14	12	944
YERSINIOSIS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3. Cases of reportable diseases by county in Kansas, 1993

42

Table 3. Cases of reportable diseases by county in Kansas, 1993

	MN	MP	MR	MS	MT	NM	NO	NS	NT	OB	OS	OT	PL	PN	PR
AIDS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AMEBIASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	4	0	0	2	0	0	0	0	0	0	0	0	1	0	2
CHANCRID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	1	25	6	0	1	1	16	1	8	1	8	1	1	14	8
E. COLI 0157:H7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIARDIASIS	1	4	2	4	0	1	0	0	5	0	2	1	0	0	0
GONORRHEA	0	13	0	1	0	0	2	0	2	0	0	0	0	5	2
HANTAVIRUS PULM. SYND.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
HEPATITIS A	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0
HEPATITIS B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS NON-A NON-B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEAD \geq 10 $\mu\text{g}/\text{dL}$	9	9	3	5	0	23	0	0	17	3	6	4	1	2	0
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LYME DISEASE	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGITIS, ASEPTIC	0	3	0	0	0	0	0	0	0	0	5	0	0	0	0
MENINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGOCOCCAL DISEASE	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0
MUMPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
RABIES, ANIMAL	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0
RHEUMATIC FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
SALMONELLOYSIS	0	13	1	1	1	1	0	0	2	0	1	0	0	2	1
SHIGELLOYSIS	0	6	0	0	1	0	0	0	0	0	0	0	0	1	0
SYphilis, P AND S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SYphilis, CONGENTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYphilis, ALL STAGES	0	1	0	0	0	0	0	0	3	0	0	0	0	1	0
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINITIS	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3. Cases of reportable diseases by county in Kansas, 1993

4

Table 3. Cases of reportable diseases by county in Kansas, 1993

	SM	SN	ST	SU	SV	SW	TH	TR	WA	WB	WH	WL	WO	WS	WY	TOTAL
AIDS	*	19	*	*	*	*	*	*	*	*	*	*	*	*	61	358
AMEBIASIS	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	22
CAMPYLOBACTERIOSIS	0	17	0	0	0	0	0	0	0	2	0	3	0	1	13	201
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
CHLAMYDIA	6	570	4	23	4	39	18	0	1	1	1	0	3	3	819	5694
E. COLI 0157:H7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11
ENCEPHALITIS, PRIMARY	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7
GIARDIASIS	0	21	0	3	0	1	0	1	0	1	0	2	0	4	20	385
GONORRHEA	0	552	0	3	1	12	4	0	0	0	0	0	0	0	2	934
HANTAVIRUS PULM. SYND.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
HEPATITIS A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	9	79
HEPATITIS B	0	13	0	0	0	0	0	0	0	0	0	0	0	0	2	65
HEPATITIS NON-A NON-B	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	16
LEAD ≥ 10 µg/dL	3	47	0	11	0	1	8	1	0	1	2	11	9	0	0	545
LEGIONELLOSIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	7
LYME DISEASE	0	10	0	0	0	0	0	0	0	0	0	0	0	0	3	55
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
MENINGITIS, ASEPTIC	0	31	0	0	0	5	0	0	0	1	1	0	0	0	29	202
MENINGITIS, HIB	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	4
MENINGOCOCCAL DISEASE	0	5	0	0	0	1	0	0	0	1	0	0	0	0	3	36
MUMPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	24
RABIES, ANIMAL	0	4	0	4	0	0	0	0	2	0	0	0	0	1	1	79
RHEUMATIC FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SALMONELLOSIS	1	17	0	3	0	4	0	0	0	0	0	1	1	0	13	299
SHIGELLOSIS	0	26	0	1	0	4	0	0	0	0	1	0	0	0	9	208
SYphilis, P AND S	0	3	0	0	0	0	0	0	0	0	0	0	0	0	93	129
SYphilis, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
SYphilis, ALL STAGES	0	12	0	0	0	2	0	0	0	0	0	0	0	0	150	282
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
TUBERCULOSIS	0	5	0	1	0	0	1	0	0	0	0	0	0	0	7	83
TULAREMIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
URETHRITIS	0	312	0	0	0	1	0	0	0	0	0	0	0	0	99	912
VAGINITIS	0	635	0	3	0	3	0	0	0	0	0	0	0	0	358	3489
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

* Counties which reported fewer than 5 cases.

Table 4. County abbreviations

AL	Allen	JA	Jackson	SA	Saline
AN	Anderson	JF	Jefferson	SC	Scott
AT	Atchison	JW	Jewell	SG	Sedgwick
BA	Barber	JO	Johnson	SW	Seward
BT	Barton	KE	Kearny	SN	Shawnee
BB	Bourbon	KM	Kingman	SD	Sheridan
BR	Brown	KW	Kiowa	SH	Sherman
BU	Butler	LB	Labette	SM	Smith
CS	Chase	LE	Lane	SF	Stafford
CQ	Chataqua	LV	Leavenworth	ST	Stanton
CK	Cherokee	LC	Lincoln	SV	Stevens
CN	Cheyenne	LN	Linn	SU	Sumner
CA	Clark	LG	Logan	TH	Thomas
CY	Clay	LY	Lyon	TR	Trego
CD	Cloud	MN	Marion	WB	Wabaunsee
CF	Coffey	MS	Marshall	WA	Wallace
CM	Comanche	MP	McPherson	WS	Washington
CL	Cowley	ME	Meade	WH	Wichita
CR	Crawford	MI	Miami	WL	Wilson
DC	Decatur	MC	Mitchell	WO	Woodson
DK	Dickinson	MG	Montgomery	WY	Wyandotte
DP	Doniphan	MR	Morris		
DG	Douglas	MT	Morton		
ED	Edwards	NM	Nemaha		
EK	Elk	NO	Neosho		
EL	Ellis	NS	Ness		
EW	Ellsworth	NT	Norton		
FI	Finney	OS	Osage		
FO	Ford	OB	Osborne		
FR	Franklin	OT	Ottawa		
GE	Geary	PN	Pawnee		
GO	Gove	PL	Phillips		
GH	Graham	PT	Pottawatomie		
GT	Grant	PR	Pratt		
GY	Gray	RA	Rawlins		
GL	Greeley	RN	Reno		
GW	Greenwood	RP	Republic		
HM	Hamilton	RC	Rice		
HP	Harper	RL	Riley		
HV	Harvey	RO	Rooks		
HS	Haskell	RH	Rush		
HG	Hodgeman	RS	Russell		

Table 5. Map of Kansas

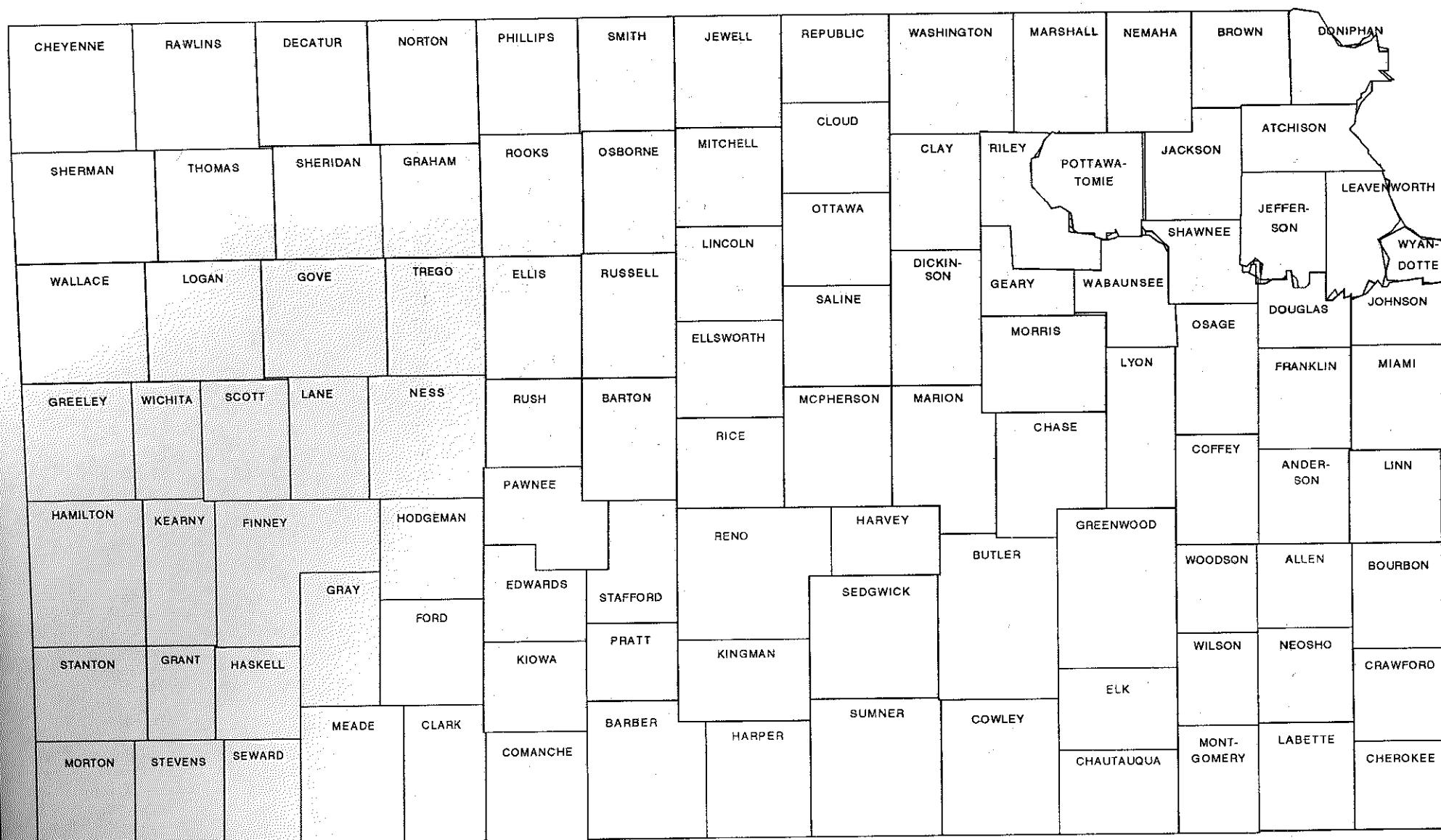


Table 6. Publications on disease control in Kansas, 1993

1. KDHE. Perinatal transmission of hepatitis B in Kansas. *Kansas Medicine*. 1993;94:20-21.
2. KDHE. Alcohol-related mortality in Kansas, 1990. *Kansas Medicine*. 1993;94:51-52.
3. KDHE. Reportable diseases in Kansas: 1992 summary. Topeka, Kansas: Kansas Department of Health and Environment, Bureau of Disease Control, 1993.
4. Tappan K. The epidemiology of HIV/AIDS in Kansas. *Kansas Medicine*. 1993;94:74-75,77.
5. Pippert K. Knowledge and attitudes about HIV/AIDS among Kansans. *Kansas Medicine*. 1993;94:76-77.
6. Finney S. Public health services for HIV/AIDS patients in Kansas. *Kansas Medicine*. 1993;94:78-79.
7. KDHE. Screening for breast cancer: Kansas, 1992. *Kansas Medicine*. 1993;94:84.
8. KDHE. Declining incidence of haemophilus meningitis in Kansas. *Kansas Medicine*. 1993;94:112.
9. KDHE. Tuberculosis in Kansas, 1992. *Kansas Medicine*. 1993;94:137.
10. KDHE. Gonorrhea in Kansas, 1992. *Kansas Medicine*. 1993;94:174.
11. KDHE. Revised list of reportable diseases. *Kansas Medicine*. 1993;94:210.
12. KDHE. Disease control statutes and regulations. Topeka, Kansas: Kansas Department of Health and Environment, Bureau of Disease Control, 1993.
13. KDHE. Screening for breast cancer: Kansas, 1992. *The Kansas Nurse*. 1993;68:6.
14. KDHE. Tetanus in Kansas, 1993. *Kansas Medicine*. 1993;94:249.
15. KDHE. Outbreak of pneumococcal disease in a nursing home in Kansas, 1993. *Kansas Medicine*. 1993;94:276.
16. Pelletier AR, Baron RC. Smoking-attributable mortality in Kansas, 1990. *Kansas Medicine*. 1993;94:290-293.
17. KDHE. Surveillance for arboviral disease in Kansas, 1993. *Kansas Medicine*. 1993;94:301.